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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/677,604	10/02/2003	Yam Mo Wong	P/4076-59	8937	
2352	7590 03/29/2005		EXAM	EXAMINER	
OSTROLENK FABER GERB & SOFFEN 1180 AVENUE OF THE AMERICAS			EDMONDSON, LYNNE RENEE		
NEW YORK, NY 100368403		,	ART UNIT	PAPER NUMBER	
,					

1725

DATE MAILED: 03/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		1	
	Application No.	Applicant(s)	
Office Action Summary	10/677,604	WONG ET AL.	
Office Action Summary	Examiner	Art Unit	
The MAILING DATE of this communication on	Lynne Edmondson	1725	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with	ine correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply oly within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTH: e, cause the application to become ABAN	be timely filed 0) days will be considered timely. 5 from the mailing date of this communication. DONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 19 J This action is FINAL . 2b)⊠ This Since this application is in condition for allowated closed in accordance with the practice under the second s	s action is non-final. ance except for formal matters		
Disposition of Claims			
4) ☐ Claim(s) 1-18 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	awn from consideration.		
Application Papers			
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on <u>02 October 2003</u> is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Examine 11.	e: a) accepted or b) objection is required if the drawing (s) be held in abeyance ction is required if the drawing (s)	See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in App prity documents have been re- nu (PCT Rule 17.2(a)).	lication No ceived in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		mary (PTO-413) lail Date mal Patent Application (PTO-152)	

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DETAILED ACTION

Allowable Subject Matter

1. The indicated allowability of claims 9, 12, 13, 17 and 18 is withdrawn in view of the newly discovered reference(s) to height relative to wire diameter. Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Ano (USPN 6815836 B2).

Ano teaches a method of wire bonding by forming a bond at a first bonding point and moving the tool away from the first bond, forming a kink and loop in the wire having a curved portion wherein the tool is moved substantially vertically upwards and toward the second bonding point (figures 4A-4F, col 5 lines 18-65 and col 6 lines 30-37). The wire diameter is less than 1 mil (~25 micron or .98 mil) and at approximately the same height as the first bonding point (figures 2 and 3 and col 3 lines 33-44). The wire loop

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comprising a ball bonded base portion, a neck portion, a curved portion which twists in a direction substantially transverse to the vertical axis and a wire extending in a horizontal direction at substantially the same height as the top of the base portion (figures 3 and 6).

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4. Claims 10, 11 and 14-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Takahashi (US 2003/0166333 A1).

Takahashi teaches a wire bond comprising a ball and neck portion from which a curved portion and wire stem protrude in a horizontal direction at substantially the same height as the top of the base portion (figures 9 and 10).

5. Claims 10, 11 and 14-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Lim et al. (US 2004/0080056 A1).

Lim teaches a wire bond comprising a ball and neck portion from which a curved portion and wire stem protrude in a horizontal direction at substantially the same height as the top of the base portion (figure 7 and paragraph 28).

Response to Arguments

6. Applicant's arguments with respect to claims 1-18 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Nomoto et al. (USPN 649773 B1), Kanda et al. (US 20040115918 A1), Komiyama et al. (US 2002/0047213 A1) and Fujisawa (US 2004/0104477 A1).

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynne Edmondson whose telephone number is (571) 272-1172. The examiner can normally be reached on Monday through Thursday from 6:30 a.m. to 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Lynne Edmondson Primary Examiner Art Unit 1725

LRE

LYNNE R. EUMONDSOR

PRIMARY EXAMINED

3/24/05

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